OPINION 650

GRAPTOLITE GENERIC NAMES : VALIDATION OF CERTAIN EMENDATIONS UNDER THE PLENARY POWERS

RULING.—(1) Under the plenary powers :

(a) the generic name *Dichograpsus* Salter, 1861, is hereby suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy ;

(b) the following emendations are hereby validated :

(i) *Acanthograpsus* Spencer, 1878, to *Acanthograptus* ;
(ii) *Calyptograpsus* Spencer, 1878, to *Calyptograptus* ;
(iii) *Cephalograpsus* Hopkinson, 1869, to *Cephalograptus* ;
(iv) *Clonograpsus* Hall & Nicholson, 1873, to *Clonograptus* ;
(v) *Dicellograpsus* Hopkinson, 1871, to *Dicellograptus* ;
(vi) *Didymograpsus* McCoy, (1851), to *Didymograptus* ;
(vii) *Diplograpsis* McCoy, 1850, to *Diplograptus* ;
(viii) *Glossograpsus* Emmons, 1855, to *Glossograptus* ;
(ix) *Nemagrapsus* Emmons, 1855, to *Nemagraptus* ;
(x) *Pleurograpsus* Nicholson, 1867, to *Pleurograptus* ;
(xi) *Rhizograpsus* Spencer, 1878, to *Rhizograptus* ;
(xii) *Staurograpsus* Emmons, 1855, to *Staurograptus* ;
(xiii) *Tetragrapsus* Salter, 1863, to *Tetragraptus*
(xiv) *Trigonograpsus* Nicholson, 1869, to *Trigonograptus*.

(2) The following generic names are hereby placed on the Official List of Generic Names in Zoology with the Name Numbers specified :

(a) *Acanthograptus* Spencer, 1878 (gender : masculine), type-species, by monotypy, *Acanthograpsus* [sic] *granti* Spencer, 1878 (Name No. 1510) ;

(b) *Calyptograptus* Spencer, 1878 (gender : masculine), type-species, by designation by Miller, 1889, *Calyptograpsus* [sic] *cyathiformis* Spencer, 1878 (Name No. 1511) ;

(c) *Cephalograptus* Hopkinson, 1869 (gender : masculine), type-species, by monotypy, *Diplograpsus* [sic] *cometa* Geinitz, 1852 (Name No. 1512) ;

(d) *Clonograptus* Hall & Nicholson, 1873 (gender : masculine), type-species, by designation by Miller, 1889, *Graptolithus rigidus* Hall, 1858 (Name No. 1513) ;

(e) *Cyrtograptus* Lapworth, 1873 (gender : masculine), type-species, by monotypy, through *Cyrtograpsus* Carruthers, 1867, *Cyrtograptus murchisonii* Carruthers, 1867 (Name No. 1514) ;

(f) *Dicellograptus* Hopkinson, 1871 (gender : masculine), type-species, by designation by Gurley, 1896, *Didymograpsus* [sic] *elegans* Carruthers, 1868 (Name No. 1515) ;

(g) *Dichograptus* Hall, 1865 (gender : masculine), type-species, by designation by Gurley, 1896, *Dichograpsus* [sic] *sedgwickii* Salter, 1863 (Name No. 1516) ;

(h) *Didymograptus* McCoy, (1851) (gender : masculine), type-species, by designation by Miller, 1889, *Graptolithus murchisoni* Beck, 1839 (Name No. 1517) ;

(i) *Diplograptus* McCoy, 1850 (gender : masculine), type-species, by designation by Gurley, 1896, *Prionotus pristis* Hisinger, 1837 (Name No. 1518);

(j) *Glossograptus* Emmons, 1855 (gender : masculine), type-species, by designation by Lapworth, 1873, *Glossograpsus* [sic] *ciliatus* Emmons, 1855 (Name No. 1519) ;

(k) *Nemagraptus* Emmons, 1855 (gender : masculine), type-species, by designation by Hall, 1868, *Nemagrapsus* [sic] *elegans* Emmons, 1855 (Name No. 1520) ;

(l) *Pleurograptus* Nicholson, 1867 (gender : masculine), type-species, by monotypy, *Cladograpsus linearis* Carruthers, 1858 (Name No. 1521) ;

(*m*) *Rhizograptus* Spencer, 1878 (gender : masculine), type-species, by monotypy, *Rhizograpsus* [sic] *bulbosus* Spencer, 1878 (Name No. 1522) ;

(n) *Staurograptus* Emmons, 1855 (gender : masculine), type-species, by monotypy, *Staurograpsus* [sic] *dichotomous* Emmons, 1855 (Name No. 1523) ;

(o) *Tetragraptus* Salter, 1863 (gender : masculine), type-species, by original designation, *Graptolithus bryonoides* Hall, 1858 (Name No. 1524) ;

(p) *Trigonograptus* Nicholson, 1869 (gender : masculine), type-species, by monotypy, *Trigonograpsus* [sic] *lanceolatus* Nicholson, 1869 (Name No. 1525) ;

(q) *Tetragrapsus* Rathbun, 1916 (gender : masculine), type-species, by monotypy, *Brachynotus* (*Heterograpsus*) *jouyi* Rathbun, 1893 (Crustacea, Decapoda) (Name No. 1526).

(3) The following specific names are hereby placed on the Official List of Specific Names in Zoology with the Name Numbers specified :

(a) *granti* Spencer, 1878, as published in the binomen *Acanthograpsus* [sic] *granti* (type-genus of *Acanthograptus* Spencer, 1878) (Name No. 1870) ;

(b) *cyathiformis* Spencer, 1878, as published in the binomen *Calyptograpsus* [sic] *cyathiformis* (type-species of *Calyptograptus* Spencer, 1878) (Name No. 1871) ;

(c) *cometa* Geinitz, 1852, as published in the binomen *Diplograpsus* [sic] *cometa* (type-species of *Cephalograptus* Hopkinson, 1869) (Name No. 1872) ;

(d) *rigidus* Hall, 1858, as published in the binomen *Graptolithus rigidus* (type-species of *Clonograptus* Hall & Nicholson, 1873) (Name No. 1873) ;

(e) *murchisonii* Carruthers, 1867, as published in the binomen *Cyrtograpsus* [sic] *murchisonii* (type-species of *Cyrtograptus* Lapworth, 1873) (Name No. 1874) ;

(f) *elegans* Carruthers, 1868, as published in the binomen *Didymograpsus* [sic] *elegans* (type-species of *Dicellograptus* Hopkinson, 1871) (Name No. 1875) ;

(g) *sedgwickii* Salter, 1863, as published in the binomen *Dichograpsus* [sic] *sedgwickii* (type-species of *Dichograptus* Hall, 1865) (Name No. 1876) ;

(h) *murchisoni* Beck, 1839, as published in the binomen *Graptolithus murchisoni* (type-species of *Didymograptus* McCoy, (1851)) (Name No. 1877);

(i) *pristis* Hisinger, 1837, as published in the binomen *Prionotus pristis* (type-species of *Diplograptus* McCoy, 1850) (Name No. 1878);

(j) *ciliatus* Emmons, 1855, as published in the binomen *Glossograpsus* [sic] *ciliatus* (type-species of *Glossograptus* Emmons, 1855) (Name No. 1879);

(k) *gracilis* Hall, 1848, as published in the binomen *Graptolithus gracilis* (Name No. 1880);

(l) *linearis* Carruthers, 1858, as published in the binomen *Cladograpsus linearis* (type-species of *Pleurograptus* Nicholson, 1867) (Name No. 1881);

(m) *bulbosus* Spencer, 1878, as published in the binomen *Rhizograpsus* [sic] *bulbosus* (type-species of *Rhizograptus* Spencer, 1878) (Name No. 1882);

(n) *dichotomous* Emmons, 1855, as published in the binomen *Staurograpsus* [sic] *dichotomous* (type-species of *Staurograptus* Emmons, 1855) (Name No. 1883);

(o) *serra* Brongniart, 1828, as published in the binomen *Fucoides serra* (Name No. 1884);

(p) *lanceolatus* Nicholson, 1869, as published in the binomen *Trigonograpsus* [sic] *lanceolatus* (type-species of *Trigonograptus* Nicholson, 1869) (Name No. 1885);

(q) *jouyi* Rathbun, 1893, as published in the binomen *Brachynotus* (*Heterograpsus*) *jouyi* (type-species of *Tetragrapsus* Rathbun, 1916) (Crustacea, Decapoda) (Name No. 1886).

(4) The following family-group names are hereby placed on the Official List of Family-Group Names in Zoology with the Name Numbers specified:

(a) ACANTHOGRAPTIDAE Bulman, 1938 (type-genus *Acanthograptus* Spencer, 1878) (Name No. 338);

(b) CYRTOGRAPTIDAE Bouček, 1933 (type-genus *Cyrtograptus* Lapworth, 1873) (Name No. 339);

(c) DICHOGRAPTIDAE Lapworth, 1873 (type-genus *Dichograptus* Hall, 1865) (Name No. 340);

(d) DIPLOGRAPTIDAE Lapworth, 1873 (type-genus *Diplograptus* McCoy, 1850) (Name No. 341).

(5) The following generic names are hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology with the Name Numbers specified:

(a) *Dichograpsus* Salter, 1861 (suppressed under the plenary powers in (1)(a) above) (Name No. 1599);

(b) *Dichograpsus* Salter, 1863 (a junior homonym of *Dichograpsus* Salter, 1861) (Name No. 1600);

(c) *Diplograpsus* McCoy (1851) (an invalid emendation of *Diplograpsis* McCoy, 1850) (Name No. 1601);

(d) the following names, ruled under the plenary powers in (1)(b) above to be incorrect original spellings:

(i) *Acanthograpsus* Spencer, 1878 (Name No. 1602);
(ii) *Calyptograpsus* Spencer, 1878 (Name No. 1603);
(iii) *Cephalograpsus* Hopkinson, 1869 (Name No. 1604);
(iv) *Clonograpsus* Hall & Nicholson, 1873 (Name No. 1605);
(v) *Dicellograpsus* Hopkinson, 1871 (Name No. 1606);
(vi) *Didymograpsus* McCoy, (1851) (Name No. 1607);
(vii) *Diplograpsis* McCoy, 1850 (Name No. 1608);
(viii) *Glossograpsus* Emmons, 1855 (Name No. 1609);
(ix) *Nemagrapsus* Emmons, 1855 (Name No. 1610);
(x) *Pleurograpsus* Nicholson, 1867 (Name No. 1611);
(xi) *Rhizograpsus* Spencer, 1878 (Name No. 1612);
(xii) *Staurograpsus* Emmons, 1855 (Name No. 1613);
(xiii) *Tetragrapsus* Salter, 1863 (Name No. 1614);
(xiv) *Trigonograpsus* Nicholson, 1869) (Name No. 1615).

THE HISTORY OF THE CASE (Z.N.(S.) 983)

The present case was first submitted to the Commission office in July 1955 by Dr. O. M. Bulman. After certain amendments Dr. Bulman's application was sent to the printer on 22 September 1960 and was published on 14 April 1961 in *Bull. zool. Nomencl.* **18** : 149–154. Public Notice of the possible use of the plenary powers in the present case was given in the same part of the *Bulletin* as well as to the other prescribed serial publications (*Bull. zool. Nomencl.* **4** : 51–56) and to three palaeontological serials. No objection was received.

DECISION OF THE COMMISSION

On 7 February 1962 the Members of the Commission were invited to vote under the Three-Month Rule on Voting Paper (62)4 either for or against the proposals published in *Bull. zool. Nomencl.* **18** : 151–154. At the close of the prescribed Voting Period on 7 May 1962 the state of the voting was as follows :

Affirmative Votes—twenty-three (23), received in the following order : Hering, Evans, Munroe, Holthuis, Mayr, Vokes, Miller, Lemche, Riley, Kühnelt, Key, Bonnet, Uchida, Stoll, Borchsenius, Alvarado, do Amaral, Jaczewski, Tortonese, Bradley, Boschma, Mertens, Poll.

Negative Votes—none (0).

On Leave of Absence—two (2) : Brinck, Prantl.

Voting Papers not returned—two (2) : Hemming, Obruchev.

It was discovered in preparing the Ruling on this Opinion that *Cyrtograpsus* Carruthers, 1867, had already been placed on the Official Index with the Name No. 478 by Direction 37.

Original References

The following are the original references for names placed on Official Lists and Indexes by the Ruling given in the present Opinion :

Acanthograpsus Spencer, 1878, an invalid original spelling for *Acanthograptus* q.v.

ACANTHOGRAPTIDAE Bulman, 1838, *in* Schindewolf, *Handb. der Palaeozool.* **2D**(2) : 20–21
Acanthograptus Spencer, 1878, *Canad. Nat.* **8** : 461
bulbosus, Rhizograpsus [sic], Spencer, 1878, *Canad. Nat.* **8** : 460
Calyptograpsus Spencer, 1878, an invalid original spelling for *Calyptograptus* q.v.
Calyptograptus Spencer, 1878, *Canad. Nat.* **8** : 459
Cephalograpsus Hopkinson, 1869, an invalid spelling for *Cephalograptus* q.v.
Cephalograptus Hopkinson, 1869, *J. Quekett Micr. Club* **1** : 159
ciliatus, Glossograpsus [sic], Emmons, 1855, *Amer. Geol.* **1** : 108
Clonograpsus J. Hall & Nicholson, 1873, an invalid original spelling for *Clonograptus* q.v.
Clonograptus J. Hall & H. A. Nicholson, 1873, *in* Nicholson, *Ann. Mag. nat. Hist.* (4) **9** : 138
cometa, Diplograpsus, Geinitz, 1852, *Verstein. Grauwackenform.* **1** : 26
cyathiformis, Calyptograpsus [sic], Spencer, 1878, *Canad. Nat.* **8** : 459
CYRTOGRAPTIDAE Bouček, 1933, *Prace geolog.-palaeont. ustavu Karlovy University* : T.P., 11 (footnote)
Cyrtograptus Lapworth, 1873, *Geol. Mag.* **10** : Table 1
Dicellograpsus Hopkinson, 1871, an invalid original spelling for *Dicellograptus* q.v.
Dicellograptus Hopkinson, 1871, *Geol. Mag.* **7** : 20
Dichograpsus Salter, 1861, *Geologist* **4** : 74
Dichograpsus Salter, 1863, *Quart. J. geol. Soc.* **19** : 139
DICHOGRAPTIDAE Lapworth, 1873, *Geol. Mag.* **10** : table i
Dichograptus Hall, 1865, *Geological Survey of Canadu, Canadian Organic Remains*, Decade 2
dichotomous, Staurograpsus [sic], Emmons, 1855, *Amer. Geol.* **1** : 109
Didymograpsus McCoy, (1851) an invalid original spelling for *Didymograptus* q.v.
Didymograptus McCoy, (1851), *in* Sedgwick & McCoy, *Brit. palaeoz. Rocks* (1) : 9
Diplograpsis McCoy, 1850, an invalid original spelling for *Diplograptus* q.v.
Diplograpsus McCoy, (1851), *in* Sedgwick & McCoy, *Brit. palaeoz. Rocks*(1) : 7
DIPLOGRAPTIDAE Lapworth, 1873, *Geol. Mag.* **10** : table i
Diplograptus McCoy, 1850, *Ann. Mag. nat. Hist.* (2) **6** : 270
elegans, Didymograpsus [sic], Carruthers, 1868, *Geol. Mag.* **5** : 129
Glossograpsus Emmons, 1855, an invalid original spelling for *Glossograptus* q.v.
Glossograptus Emmons, 1855, *Amer. Geol.* **1** : 108
gracilis, Graptolithus, Hall, 1848, *Pal. N.Y.* **1** : 274
granti, Acanthograpsus [sic], Spencer, 1878, *Canad. Nat.* **8** : 461
jouyi, Brachynotus (*Heterograpsus*), Rathbun, 1893, *Proc. U.S. nat. Mus.* **16** : 247
lanceolatus, Trigonograpsus [sic], Nicholson, 1869, *Ann. Mag. nat. Hist.* (4) **4** : 231
linearis, Cladograpsus, Carruthers, 1858, *Proc. roy. phys. Soc. Edinb.* **1** : 467
murchisoni, Graptolithus, Beck, 1839, *in* Murchison, *Silurian System* : 694

murchisonii, *Cyrtograpsus* [sic], Carruthers, 1867, *in* Murchison, *Siluria* (ed. 4), App. : 540
Nemagrapsus Emmons, 1855, an invalid original spelling for *Nemagraptus* q.v.
Nemagraptus Emmons, 1855, *Amer. Geol.* **1** : 109
Pleurograpsus Nicholson, 1867, an invalid original spelling for *Pleurograptus* q.v.
Pleurograptus Nicholson, 1867, *Geol. Mag.* **4** : 257
pristis, *Prionotus*, Hisinger, 1837, *Lethea Suecica*, suppl. : 114
Rhizograpsus Spencer, 1878, an invalid original spelling for *Rhizograptus* q.v.
Rhizograptus Spencer, 1878, *Canad. Nat.* **8** : 460
rigidus, *Graptolithus*, Hall, 1858, *Geol. Surv. Canada*, Rept. for 1857 : 121
sedgwickii, *Dichograpsus* [sic], Salter, 1863, *Quart. J. Geol. Soc.* **19** : 137
serra, *Fucoides*, Brongniart, 1828, *Hist. Veget. Foss.* **1** : 71
Staurograpsus Emmons, 1855, an invalid original spelling for *Staurograptus* q.v.
Staurograptus Emmons, 1855, *Amer. Geol.* **1** : 108
Tetragrapsus Rathbun, 1916, *Bull. U.S. nat. Mus.* **97** : 273
Tetragrapsus Salter, 1863, an invalid original spelling for *Tetragraptus* q.v.
Tetragraptus Salter, 1863, *Quart. J. geol. Soc.* **19** : 140
Trigonograpsus Nicholson, 1869, an invalid original spelling for *Trigonograptus* q.v.
Trigonograptus Nicholson, 1869, *Ann. Mag. nat. Hist.* (4) **4** : 231

The following are the original references for designations of type-species for genera concerned in the present Ruling :

For *Calyptograptus* Spencer, 1878 : Miller, 1889, *N. Amer. Geol. Pal.* : 175
For *Clonograptus* Hall & Nicholson, 1873 : Miller, 1889, *N. Amer. Geol. Pal.* : 179
For *Dicellograptus* Hopkinson, 1871 : Gurley, 1896, *J. Geol.* **4** : 70
For *Dichograptus* Hall, 1865 : Gurley, 1896, *J. Geol.* **4** : 64
For *Didymograptus* McCoy, (1851) : Miller, 1889, *N. Amer. Geol. Pal.* : 185
For *Diplograptus* McCoy, 1850 : Gurley, 1896, *J. Geol.* **4** : 78
For *Glossograptus* Emmons, 1855 : Lapworth, 1873, *Geol. Mag.* **10** : table i
For *Nemagraptus* Emmons, 1855 : Hall, 1868, 20*th Rept. N.Y. State Cab. nat. Hist.* : 211

CERTIFICATE

We certify that the votes cast on Voting Paper (62)4 were cast as set out above, that the proposal set out in that Voting Paper has been duly adopted under the plenary powers, and that the decision so taken, being the decision of the International Commission, is truly recorded in the present Opinion No. 650.

N. D. RILEY
Secretary

W. E. CHINA
Assistant Secretary

International Commission on Zoological Nomenclature
London
15 *May* 1962